

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John V. Frangioni, et al. Art Unit: 1773

Serial No.: 10/772,425 Examiner: Hoa T. Le Filed: February 6, 2004 Docket No.: 14952.0319

Title : MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED

LYMPH NODE MAPPING

U.S. Patent and Trademark Office Mail Stop AF
Customer Service Window
Randolph Building
401 Dulaney Street
Alexandria, VA 22314

TERMINAL DISCLAIMER UNDER 37 CFR §§3.73(b) AND 1.321(c)

Pursuant to 37 CFR §3.73(b), <u>Massachusetts Institute of Technology</u> and <u>Beth Israel Deaconess</u> <u>Medical Center, Inc.</u> certify they are the assignees of the entire right, title, and interest in the above application by virtue of assignments from the inventors of a priority application of the patent application identified above. The assignments from the inventors of the patent application identified above were recorded at the Patent and Trademark Office at reel/frame numbers <u>015693/0123</u> and <u>015695/0781</u>, respectively. Copies of the recorded assignments are enclosed for reference.

Also pursuant to 37 CFR §3.73(b), Massachusetts Institute of Technology and Beth Israel

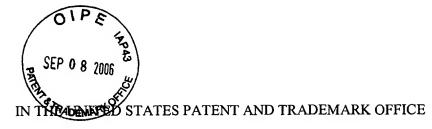
Deaconess Medical Center, Inc. certify they are the assignees of the entire right, title, and interest in the above application by virtue of assignments from the inventors of a priority application of U.S.

Application Serial No. 10/772,424. The assignments from the inventors of U.S. Application Serial No. 10/772,424 were recorded at the Patent and Trademark Office at reel/frame numbers 015695/0756 and 015695/0760, respectively. Copies of the recorded assignments are enclosed for reference.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in Massachusetts Institute of Technology and Beth Israel Deaconess Medical Center, Inc.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignees.

Pursuant to 37 CFR §1.321(c), and to obviate a double patenting rejection, the assignees identified above hereby waive and disclaim the terminal portion of the term of the entire patent to be granted upon the above identified application subsequent to the expiration date of the U.S. Patent that issues from U.S. Application Serial No. 10/772,424 whereby the patent granted on this application and the U.S. Patent that issues from U.S. Application Serial No. 10/772,424 will expire on the



Applicant : John V. Frangioni, et al. Art Unit : 1773

Serial No. : 10/772,425

Filed : February 6, 2004

Art Unit : 1773

Examiner : Hoa T. Le

Docket No.: 14952.0319

Title : MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED LYMPH

NODE MAPPING

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Application Serial No. 10/772,424. The assignments from the inventors of U.S. Application Serial No. 10/772,424 were recorded at the Patent and Trademark Office at reel/frame numbers 015695/0756 and 015695/0760, respectively. Copies of the recorded assignments are enclosed for reference.

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The undersigned, whose title is supplied below, is empowered to act on behalf of the assignees.

Pursuant to 37 CFR §1.321(c), and to obviate a double patenting rejection, the assignees identified above hereby waive and disclaim the terminal portion of the term of the entire patent to be granted upon the above identified application subsequent to the expiration date of the

U.S. Patent that issues from U.S. Application Serial No. 10/772,424 whereby the patent granted on this application and the U.S. Patent that issues from U.S. Application Serial No. 10/772,424 will expire on the same day, provided that any patent granted on the above identified application shall be enforceable only for and during such period that it is commonly owned with the U.S. Patent that issues from U.S. Application Serial No. 10/772,424.

The assignees identified above do not disclaim any terminal part of any patent granted on the above identified application prior to the expiration date of the full statutory term of the U.S. Patent that issues from U.S. Application Serial No. 10/772,424 in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR §1.321(a), has all claims cancelled by a reexamination certificate, or is otherwise terminated prior to expiration of its statutory term, except for the separation of legal title as stated above. Assignees herein do not disclaim or otherwise affect any part of the U.S. Patent that issues from U.S. Application Serial No. 10/772,424.

This disclaimer runs with any patent granted on the above application and is binding upon the grantee, its successors or assigns.

Please apply any charges or credits to deposit account 19-4293, referencing **Attorney Docket No.** 14952.0319.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

m. A

Date: 9-8-06

Harold H. Fox Reg. No. 41,498

Steptoe & Johnson LLP 1330 Connecticut Avenue, NW Washington, DC 20036-1795

Phone: 202-429-3000 Fax: 202-429-3902





UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 22, 2005

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STEPTOE & JOHNSON LLP HAROLD H. FOX 1330 CONNECTICUT AVENUE, NW WASHINGTON, DC 20036

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RECORDATION DATE: 08/19/2004

REEL/FRAME: 015693/0123

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BAWENDI, MOUNGI G.

DOC DATE: 08/05/2004

ASSIGNOR:

KIM, SUNGJEE

DOC DATE: 08/10/2004

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

77 MASSACHUSETTS AVENUE

CAMBRIDGE, MASSACHUSETTS 02142-1324

SERIAL NUMBER: 10772425

FILING DATE: 02/06/2004

PATENT NUMBER:

TITLE: MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED LYMPH NODE

015693/0123 PAGE 2

TONYA LEE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

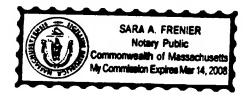
(5/5) (5/5) 200	U.S. DEPARTMENT OF COMMERC ited States Patent and Trademark Office
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AU6 1 9 2004 20 1 1 1	2819953
	ease record the attached documents or the new address(es) below.
1. In page onveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Moungi G. BAWENDI Sungjee KIM	Name: Massachusetts Institute of Technology
13	Internal Address:
Execution Date(s): 08/05/2004 and 08/10/2004	Street Address: 77 Massachusetts Avenue
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance:	City: Cambridge
Assignment	State: MA Zip: 02142-1324
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: United States of America
Other	Additional name(s) & address(es) attached? ☐ Yes ☒ No
4. Application number(s) or patent number(s):	his document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
10/772,425	
Additional numbers atta	 ched?
Additional numbers atta 5. Name and address of party to whom correspondence	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: -1-
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: -1- 7. Total Fee (37 CFR 1.21(h) & 3.41) \$40.00
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5. Name and address of party to whom correspondence concerning document should be mailed: Name: STEPTOE & JOHNSON LLP Internal Address: Attn: Docket Administrator - Box USPTO Street Address: 1330 Connecticut Avenue, NW City: Washington State: DC Zip: 20036 Phone Number: 202-429-3000	6. Total number of applications and patents involved: -1- 7. Total Fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 19-4293 Authorized User Name: Steptoe & Johnson LLP
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ASSIGNMENT

For valuable consideration, we, MOUNGI G. BAWENDI of Boston, MA, and SUNGJEE KIM of Cambridge, MA, hereby assign to: Massachusetts Institute of Technology, a corporation of Massachusetts; its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of applications for United States Patent signed by us, entitled MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED LYMPH NODE MAPPING, filed February 6, 2004, and assigned U.S. Serial Number 10/772,425, and we authorize and request the attorneys appointed in said applications to hereafter complete these assignments by inserting above the filing date and serial number of said applications when known; these assignments including said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully these assignments.

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambidge Massachuse H
this 5 th day of August , 20 04
L.S
MOUNGI G. BAWENDI
State of Massachuse Hs:
: ss.
County of Michesox:
Before me this 5 th day of fugust, 2004, personally
appeared MOUNGI G. BAWENDI known to me to be the person whose name is subscribed to
the foregoing Assignment and acknowledged that he executed the same as his free act and deed
for the purposes therein contained.
Shu atrune
Notary Public
My Commission Expires: March 14, 2008
[Notory's Seel Hors]

[Notary's Seal Here]



IN WITNESS WHEREOF, I hereto set my hand and seal at <u>Pasadana</u> , California this <u>10th</u> day of <u>August</u> , 2004
SUNGJEE KIM L.S.
•
State of Calgornia:
State of <u>Calgornia</u> : : ss. County of Jos Angeles:
County of day Can day
County One of Children !
Before me this 10 day of Queguest, 2004, personally
appeared SUNGJEE KIM known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.
RONAL D. BROOKS Sonae D. Brooks
Motary Public
My Comm. Expires Dec 2, 2007 My Comm. Expires Dec 2, 2007 My Commission Expires: 12/7/07
[Notary's Seal Here]

Under Secretary of Commerce for Intellectual Property and DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 23, 2005

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STEPTOE & JOHNSON LLP HAROLD H. FOX 1330 CONNECTICUT AVENUE, NW WASHINGTON, DC 20036

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RECORDATION DATE: 08/18/2004

REEL/FRAME: 015695/0781

NUMBER OF PAGES: 4

ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FRANGIONI, JOHN V.

DOC DATE: 08/06/2004

ASSIGNOR:

LIM, YONG TAIK

DOC DATE: 08/10/2004

ASSIGNEE:

BETH ISRAEL DEACONESS MEDICAL CENTER, INC. 330 BROOKLINE AVENUE BOSTON, MASSACHUSETTS 02215

SERIAL NUMBER: 10772425

FILING DATE: 02/06/2004

PATENT NUMBER:

TITLE: MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED LYMPH NODE ISSUE DATE:

015695/0781 PAGE 2

VIOLET MCCOY, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

AUG 1 8 2004 RECC	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office T
1. Name of conveying party(ies)/Execution Date(s): John V. FRANGIONI Yong Taik LIM Execution Date(s): 08/06/2004 and 08/10/2004 Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Government Interest Assignment Executive Order 9424, Confirmatory License Other	2. Name and address of receiving party(ies) Name: Beth Israel Deaconess Medical Center, Inc. Internal Address: 330 Brookline Avenue City: Boston State: MA Zip: 02215 Country: United States of America
4. Application number(s) or patent number(s): A. Patent Application No.(s) 10/772,425 Additional numbers atta	Additional name(s) & address(es) attached? Yes No This document is being filed together with a new application. B. Patent No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed: Name: STEPTOE & JOHNSON LLP Internal Address: Attn: Docket Administrator - Box USPTO Street Address: 1330 Connecticut Avenue, NW	 ☑ Enclosed ☑ None required (government interest not affecting title) 8. Payment Information
City: Washington State: DC Zip: 20036 Phone Number: 202-429-3000 Fax Number: 202-429-3902 Email Address:	a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 19-4293 Authorized User Name: Steptoe & Johnson LLP (missing fees or deficiencies only) Atty Dkt. 14952.0319
Signature: 12	0 3

Total number of pages including cover sheet, attachments, and documents:

-4-

Signature

Harold H. Fox, Reg. No. 41,498 Name of Person Signing

ASSIGNMENT

For valuable consideration, we, <u>JOHN V. FRANGIONI</u> of <u>Wayland, MA</u>, and <u>YONG</u> TAIK LIM of Cheonju, REPUBLIC OF KOREA, hereby assign to: Beth Israel Deaconess Medical Center, Inc., a corporation of Massachusetts its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the in entions and improvements which are subject of an application for United States Patent signed by us, entitled MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED LYMPH NODE MAPPING, filed February 6, 2004, and assigned U.S. Serial Number 10/772,425, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at ROSTON, MA
this 6th day of AUGUST, 2004
L.S
JOHN V. FRANGIONI
State of MASSACHUSETTS:
: ss.
County of SUF FOLK:
Before me this 6th day of AUGUST, 2004, personally appeared JOHN V. FRANGIONI known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.
Delugh Walk Notary Public
My Commission Expires:
[Notary's Seal Here] DEBRA L. WALK Notary Public Commonwealth of Massachusetts My Commission Expires February 9, 2007

IN WITNESS WHEREOF, I hereto set	my hand and seal at <u>Daejeon</u> , South Korek
this day ofAugust	yong Taik Lim
YONG TAIK LIM	
Signature witnessed by:	
10. August. 2004 Date	WITNESS: <u>Jin Joung Jeong</u> Printed Name: <u>Jin Young Jeong</u> Address: <u>620-55 Ang-san-dong</u> Buk-gu kwang-ju South Korea.
Signature witnessed by:	
10; August , sout. Date	WITNESS: Jem kyeung keim Printed Name: JTM Kyeong KIM Address: 25 40n-ni-dong 40m-mi-gu



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 23, 2005

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STEPTOE & JOHNSON LLP 1330 CONNECTICUT AVENUE, NW WASHINGTON, DC 20036



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RECORDATION DATE: 08/18/2004

REEL/FRAME: 015695/0756

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BAWENDI, MOUNGI G.

DOC DATE: 08/05/2004

ASSIGNOR:

KIM, DUNGJEE

DOC DATE: 08/05/2004

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MASSACHUSETTS 02142-1324

SERIAL NUMBER: 10772424

FILING DATE: 02/06/2004

PATENT NUMBER:

TITLE: MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED INTRAVASCULAR

015695/0756 PAGE 2

DOROTHY RILEY, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Form PTO-1595 (Rev. 9 6/04) (KMP version) OMB No. 0651-0027 (exp. 063) (2005)	- 24 - 2004 U.S. DEPARTMENT OF COMMERCE nited States Patent and Trademark Office
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Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Moungi G. BAWENDI $\mathcal{F} \mathcal{B} \mathcal{D} \mathcal{U}$ Sungjee KIM	Name: Massachusetts Institute of Technology Internal Address:
Execution Date(s): <u>08/05/2004 and 08/10/2004</u>	Street Address: 77 Massachusetts Avenue
Additional name(s) of conveying party(ies) attached? Yes No	City: Cambridge
3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name	State: MA Zip: 02142-1324
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: United States of America
Other	Additional name(s) & address(es) attached? Yes No
A. Patent Application No.(s)	his document is being filed together with a new application. B. Patent No.(s)
10/772,424	
Additional numbers atta	ched? ☐ Yes ⊠ No
	6. Total number of applications and patents
Additional numbers atta	6. Total number of applications and patents involved: -1- 7. Total Fee (37 CFR 1.21(h) & 3.41) \$40.00
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Additional numbers atta 5. Name and address of party to whom correspondence concerning document should be mailed: Name: STEPTOE & JOHNSON LLP Internal Address: Attn: Docket Administrator - Box USPTO Street Address: 1330 Connecticut Avenue, NW City: Washington State: DC Zip: 20036	6. Total number of applications and patents involved: -1- 7. Total Fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 19-4293
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<u>ASSIGNMENT</u>

For valuable consideration, we, MOUNGI G. BAWENDI of Boston, MA, and SUNGJEE KIM of Cambridge, MA, hereby assign to: Massachusetts Institute of Technology, a corporation of Massachusetts; its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of applications for United States Patent signed by us, entitled MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED INTRAVASCULAR IMAGING, filed February 6, 2004, and assigned U.S. Serial Number 10/772,424, and we authorize and request the attorneys appointed in said applications to hereafter complete these assignments by inserting above the filing date and serial number of said applications when known; these assignments including said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully these assignments.

IN WITNESS WHEREOF, I hereto set my hand and seal at Oumbide Massuchusetts,
this 5th day of August , 2004 MOUNGI G. BAWENDI
Ms - 5L.S.
MOUNGI G. BAWENDI
State of Mussachuse #s : ss.
: ss.
County of Middlesox:
Before me this 5th day of August, personally
appeared MOUNGI G. BAWENDI known to me to be the person whose name is subscribed to
the foregoing Assignment and acknowledged that he executed the same as his free act and deed
for the purposes therein contained.
Jang Tunin
Notary Public
My Commission Expires: March 14, 2008
[Notary's Seal Here]
harrane and the same and the sa
SARA A. FRENER Notary Public Commission of Managhungan

In Witness Whereof, I hereto set my hand and seal at Pasadema, California
this 10th day of Angust ,2004 L.S.
theor Cress do L.S.
SUNGJEE KIM
State of <u>Calgarnia</u> : : ss. County of <u>Las Angeles</u> :
County of Los angeles:
Before me this
appeared SUNGJEE KIM known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.
RONAE D. SROCKS Commission # 1449671 Notary Public - California Los Angeles County My Comm. Expires Dec 2, 2007 My Commission Expires: 12/2/67

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 23, 2005

PTAS

ATTN: DOCKET ADMINISTRATOR-BOX USPTO

1330 CONNECTICUT AVENUE NW

WASHINGTON, DC 20036

STEPTOE & JOHNSON LLP



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 08/18/2004

REEL/FRAME: 015695/0760

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FRANGIONI, JOHN V.

DOC DATE: 08/06/2004

ASSIGNOR:

LIM, YONG TAIK

DOC DATE: 08/10/2004

ASSIGNEE:

BETH ISRAEL DEACONESS MEDICAL

CENTER, INC.

330 BROOKLINE AVENUE

BOSTON, MASSACHUSETTS 02215

SERIAL NUMBER: 10772424

FILING DATE: 02/06/2004

PATENT NUMBER: ISSUE DATE:

TITLE: MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED INTRAVASCULAR

IMAGING

015695/0760 PAGE 2

VIOLET MCCOY, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Form PTO-1595 (Rev. 06/04) (KMP (on)	U.S. DEPARTMENT OF COMMERCE
RECORDA	08 - 24 - 2004 States Patent and Trademark Office
AUG 1 8 2004 8 8 1804 P	
To the Director of the U.S. of Patents and Trademan. 1. Name of conveying party(ies)/Execution Date(s):	102820273 : the new address(es) below.
	2. Name and address of receiving party(ies)
John V. FRANGIONI Yong Taik LIM	Name: Beth Israel Deaconess Medical Center, Inc.
	Internal Address:
Execution Date(s): 08/06/2004 and 08/10/2004	Street Address: 330 Brookline Avenue
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No 3. Nature of conveyance:	City: Boston
	State: MA Zip: 02215
Executive Order 9424, Confirmatory License	Country: United States of America
Other	Additional name(s) & address(es) attached? ☐ Yes ☒ No
4. Application number(s) or patent number(s):	nis document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
10/772,424	
Additional	
5. Name and address of party to whom correspondence	
and a document should be mailed:	6. Total number of applications and patents
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Name: STEPTOE & JOHNSON LLP	7. Total Fee (37 CFR 1.21(h) & 3.41)
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<u>ASSIGNMENT</u>

2 1 1

For valuable consideration, we, <u>JOHN V. FRANGIONI</u> of <u>Wayland, MA</u>, and <u>YONG</u> TAIK LIM of Cheonju, REPUBLIC OF KOREA, hereby assign to: Beth Israel Deaconess Medical Center, Inc., a corporation of Massachusetts, its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of applications for United States Patent signed by us, entitled MATERIALS AND METHODS FOR NEAR-INFRARED AND INFRARED INTRAVASCULAR IMAGING, filed February 6, 2004, and assigned U.S. Serial Number 10/772,424, and we authorize and request the attorneys appointed in said applications to hereafter complete these assignments by inserting above the filing date and serial number of said applications when known; these assignments including said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully these assignments.

DEBRA L. WALK
Notary Public
Commonwealth of Massachusetts
My Commission Expires
February 9, 2007

IN WITNESS WHEREOF, I hereto set my hand and seal at BOSTON MA
this _coth_ day of AUGUST , 20 0 Y
JOHN V. FRANGIONI
γ.
State of MASSACHUSE T75:
: ss.
County of SUFFOLK:
Before me this 4th day of AUGUST, 2004, personally appeared JOHN V. FRANGIONI known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained. Notary Public My Commission Expires:
[Notary's Seal Here]

de la companya de la

IN WITNESS WHEREOF, I hercto:	set my hand and seal at <u>Daelson</u> , South Korea,
this o day of August	
	young Tail Lim
YONG TAIK LIN	MI O
Signature witnessed by:	
10. August, 2014	WITNESS: Jin Young Jeong
Date	Printed Name: Jrn Young Jeong
	Address: 600-th Ang-san-dong
	Buk-gu Kwang-Tu
	South blonea.
Signature witnessed by:	
10. August, 2004	WITNESS: Jein kyrong Kem
Date	Printed Name: Jim Kyeong Kim
	Address: > 5 won-mi-dong, won-mi-gy
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